WNC
Wistron NeWeb Corp.

HMA

HD Radio

HD Radio

Features

- Compact Size
- iBiquity HDM-2023 Compatible
- Selectable RF Input : Pin input / Connector Input
- Optional Pin Connector : Horizontal / Vertical
- EZ Lock on System Board with 2 Options : Horizontal / Vertical
- Automatic Blending of Analog & Digital Signal
- Analog & Digital Audio Output
- FCC Compliant
- RoHS Compliant
- iBiquity Certification

RoHS COMPLIANT

FEDERAL COMMUNICATION COMMISSION U.S.A.

Wistron NeWeb Corporation
No.10-1, Li-Hsin Road I, Hsinchu Science Park, Hsinchu, 300, Taiwan
Tel: +886-3-666-7799 Fax: +886-3-666-7711

HD Radio

OEM / ODM Welcome!

Compact Size

Selectable RF Input

Above Photo is Actual Size

Optional Pin Connector

Specifications

System

- **DSP:** TI DRI352
- **Tuner:** NXP TEF6721
- **MCU:** Atmel Atmega32
- **FLASH:** 4 MB
- **SDRAM:** 8 MB

Interface

- RF Input Interface (selectable)
  - iBiquity 2023 Standard AM/FM Combo Connector
  - AWG36 Cable Input
  - 4-pin Dual Row Header, 2mm Pitch

General Data

- **DC Input Voltage:** 3.3V & 12V
- **Power Consumption:** 3.5W Max
- **Operating Temperature:** -40 °C ~ +85 °C
- **Dimensions:** 85.9(L) x 40(W) x 14.2(H) mm
- **Weight:** 66 g (cover & base included)

Board connector

- 16 Pin Dual Row Header, 2mm pitch, iBiquity HDM-2023 compatible
- 14 Pin Dual Row Header, 2mm pitch, iBiquity optional extension compatible

Tuner

- **Frequency Range :** AM : 530~1710 KHz
  FM : 87.9~107.9 MHz

HD Radio Digital Receiving Sensitivity

- **FM Hybrid:** -90dBm@97.9MHz
- **FM All Digital:** -111dBm@97.9MHz
- **AM Hybrid:** -92dBm@1120KHz
- **AM All Digital:** -106dBm@1120KHz
- **Audio Output:** 2.8V(Peak-to-Peak) at 0dBFS
- **THD:** < 0.1%
- **Stereo Separation @1KHz:** >70dB

HD Radio Analog Receiving Sensitivity

- **FM Quieting Sensitivity (Mono):** ≦2.82uV (9dBuV, SNR=50dB)
- **FM Stereo Separation:** > 40dB @ 1KHz
- **FM THD (Mono):** < 0.2%
- **AM Usable Sensitivity:** ≦12.6uV (≦22dBuV, SNR=26dB)
- **AM THD:** < 0.2% @ 400Hz (30% MI)
  < 0.5% @ 400Hz (100% MI)